The Solar Decathlon



Challenging
Students
To Build
The Future



The Solar Decathlon Events

The Solar Decathlon winner will score the most points totaled from all ten contests (each worth 100 points). Every team will have a space of identical size for its house. To allow for freedom of design while maintaining fairness and economic viability, the houses will be restricted by number of rooms, size of solar collectors, and total cost. Houses will be assembled over several days before the contest begins. Preliminary regulations will be available in October 2000 and final regulations in January 2001. Regulations will be based on the following contests, which are subject to change.



Design: A jury of architects will judge design, innovation, and aesthetics.



Hot Water: This timed contest will determine which team can heat the most water and keep it hot the longest.



Space Heating: Teams must keep their homes at a constant 72° F, and a contest will test maximum heating ability.



Refrigeration: In addition to powering a refrigerator all day and night, a timed contest, such as making the most ice, will test the ability to refrigerate.



Space Cooling: In addition to maintaining a constant 72° F, this contest will test the maximum cooling ability of the home.



Appliances: Measured in kilowatt hours, this contest will award the greatest use of state-of-the-art, efficient appliances for the longest period of time.



Lighting: This contest will demonstrate ways to produce the most light while using the least amount of electricity.



Transportation: Each team will be required to log miles in a vehicle that uses excess power generated by the house.



Communication: This contest will reward the greatest ability to communicate using computers and telecommunications equipment.



Presentation: Through print and digital media, as well as live tours, each team will be required to explain the construction, operation, and performance of its solar house.

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